

**CLAIMS****[CLAIM 1]**

A working machine (1) comprising:

5 a boom (10) of which one end is attached to a structural body (16A) supporting a work implement;

10 a bucket (20) or the like attached as an attachment to the other end of the boom (10);

a bell crank (11) attached to a middle position of the boom (10) in a longitudinal direction thereof;

15 a tilt cylinder (12) for driving the bell crank (11); and

a connecting link (13) for connecting the bell crank (11) and the bucket (20) or the like, wherein

when the bucket or the like is horizontally at a ground position and a digging face of the bucket or the like is opposing to a ground surface, the tilt cylinder (12) drives the bell crank (11) on an upper end side thereof and the connecting link (13) connects the bell crank (11) to the bucket (20) or the like on a lower end side of the bell crank (11);

the tilt cylinder (12) connects the bell crank (11) and the structural body (16A); and

20 an angle between a first line segment (L1) connecting a pivot position (Y) on the boom (10) and a pivot position (X) on the connecting link (13) of the bell crank (11) and a second line segment (L2) connecting the pivot position (Y) on the boom (10) and a pivot position (W) on the tilt cylinder (12) of the bell crank (11) is set in a range from 0 degree to 180 degrees on the bucket (20) or the like side.

**[CLAIM 2]**

25 A working machine (2) comprising:

a boom (10) of which one end is attached to a structural body (16A) supporting a work implement;

a fork (30) or the like attached as an attachment to the other end of the boom (10);

a bell crank (11) attached to a middle position of the boom (10) in a longitudinal direction thereof;

a tilt cylinder (12) for driving the bell crank (11); and

5 a connecting link (13) for connecting the bell crank (11) and the fork (30) or the like, wherein

when the fork or the like is horizontally at a ground position, the tilt cylinder (12) drives the bell crank (11) on an upper end side thereof and the connecting link (13) connects the bell crank (11) to the fork (30) or the like on a lower end side of the bell crank (11); and

10 an angle between a first line segment (L1) connecting a pivot position (Y) on the boom (10) and a pivot position (X) on the connecting link (13) of the bell crank (11) and a second line segment (L2) connecting the pivot position (Y) on the boom (10) and a pivot position (W) on the tilt cylinder (12) of the bell crank (11) is set in a range from 0 degree to 180 degrees on the fork (30) or the like side.

15 [CLAIM 3]

A working machine (2) comprising:

a boom (10) of which one end is attached to a structural body (16A) supporting a work implement;

20 a fork (30) or the like attached as an attachment to the other end of the boom (10);

a bell crank (11) attached to a middle position of the boom (10) in a longitudinal direction thereof;

a tilt cylinder (12) for driving the bell crank (11); and

25 a connecting link (13) for connecting the bell crank (11) and the fork (30) or the like, wherein

when the fork or the like is horizontally at a ground position, the tilt cylinder (12) drives the bell crank (11) on an upper end side thereof and the connecting link (13) connects the bell crank (11) to the fork (30) or the like on a lower end side of the bell crank (11);

the tilt cylinder (12) connects the bell crank (11) and the structural body (16A); and

5 an angle between a first line segment (L1) connecting a pivot position (Y) on the boom (10) and a pivot position (X) on the connecting link (13) of the bell crank (11) and a second line segment (L2) connecting the pivot position (Y) on the boom (10) and a pivot position (W) on the tilt cylinder (12) of the bell crank (11) is set in a range from 0 degree to 180 degrees on the fork (30) or the like side.

[CLAIM 4]

A working machine (3) comprising:

10 a boom (10) of which one end is attached to a structural body (16A) supporting a work implement;

an attachment (20, 30) attached to the other end of the boom (10);

a bell crank (11) attached to a middle position of the boom (10) in a longitudinal direction thereof,

15 a tilt cylinder (12) for driving the bell crank (11); and

a connecting link (13) for connecting the bell crank (11) and the attachment (20, 30), wherein

20 when the attachment is horizontally at a ground position, the tilt cylinder (12) drives the bell crank (11) on an upper end side thereof and the connecting link (13) connects the bell crank (11) to the attachment (20, 30) on a lower end side of the bell crank (11);

25 an angle between a first line segment (L1) connecting a pivot position (Y) on the boom (10) and a pivot position (X) on the connecting link (13) of the bell crank (11) and a second line segment (L2) connecting the pivot position (Y) on the boom (10) and a pivot position (W) on the tilt cylinder (12) of the bell crank (11) is set in a range from 0 degree to 180 degrees on the attachment (20, 30) side;

the attachment (20, 30) may be selected for use from a plurality of types; and

each of the attachment (20, 30) that is different from each other has a different pivot position (Q) on the connecting link (13) relative to a pivot position (P) on the boom

as a reference point.

[CLAIM 5]

A working machine (3) comprising:

5 a boom (10) of which one end is attached to a structural body (16A) supporting a work implement;

an attachment (20, 30) attached to the other end of the boom (10);

10 a bell crank (11) attached to a middle position of the boom (10) in a longitudinal direction thereof;

a tilt cylinder (12) for driving the bell crank (11); and

15 a connecting link (13) for connecting the bell crank (11) and the attachment (20, 30), wherein

when the attachment is horizontally at a ground position, the tilt cylinder (12) drives the bell crank (11) on an upper end side thereof and the connecting link (13) connects the bell crank (11) to the attachment (20, 30) on a lower end side of the bell crank (11);

20 the tilt cylinder (12) connects the bell crank (11) and the structural body (16A);

25 an angle between a first line segment (L1) connecting a pivot position (Y) on the boom (10) and a pivot position (X) on the connecting link (13) of the bell crank (11) and a second line segment (L2) connecting the pivot position (Y) on the boom (10) and a pivot position (W) on the tilt cylinder (12) of the bell crank (11) is set in a range from 0 degree to 180 degrees on the attachment (20, 30) side;

the attachment (20, 30) may be selected for use from a plurality of types; and

30 each of the attachment (20, 30) that is different from each other has a different pivot position (Q) on the connecting link (13) relative to a pivot position (P) on the boom as a reference point.

[CLAIM 6]

The working machine (1, 2, 3) according to claim 1, claim 3, and claim 5,

35 wherein a pivot position (Z) of the tilt cylinder (12) on the structural body (16A) is lower compared to a pivot position (S) of the boom (10) on the structural body (16).

**[CLAIM 7]**

The working machine (1, 2, 3) according to any one of claims 1 to 6,  
wherein the angle between the first line segment and the second line segment is  
set so that the angle is equal to or smaller than an angle at which absolute values of the  
5 attachment angles of the attachment (20, 30) are substantially equal to each other at any  
two positions from a ground position to a top position of the attachment (20, 30).

**[CLAIM 8]**

The working machine (1, 2, 3) according to any one of claims 1 to 7,  
wherein the angle between the first line segment and the second line segment is in  
10 a range from 0 degree to 170 degrees.

**[CLAIM 9]**

The working machine (1, 2, 3) according to any one of claims 1 to 7,  
wherein the angle between the first line segment and the second line segment is in a range  
from 170 degrees to 180 degrees.